

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. KCC-14,105.3		SERIAL NO.	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S) Wendy L. HAMILTON et al.			
				FILING DATE		GROUP	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CWA	AA	5,342,337	08/1994	Runeman et al.			
	AB	5,597,873	01/1997	Chambers et al.			
	AC	4,190,563	02/1980	Bosley et al.			
	AD	6,156,020	12/2000	Roe et al.			
	AE	6,025,186	02/2000	Kirk et al.			
	AF	5,885,263	03/1999	Gancet et al.			
	AG	5,762,641	06/1998	Bewick-Sonntag et al.			
	AH	5,649,915	07/1997	Chauvette et al.			
	AI	5,643,588	07/1997	Roe et al.			
	AJ	5,599,334	02/1997	Johnston et al.			
✓	AK	5,009,650	04/1991	Bernardin			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR		
	AS		
	AT		

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Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
WA	A225	5.858.021	01/1999	Sun et al.			
	A226	5.865.824	02/1999	Chen et al.			
	A227	5.866.242	02/1999	Tan et al.			
	A228	5.883.231	03/1999	Achter et al.			
	A229	5.888.345	03/1999	Knapick et al.			
	A230	5.914.125	06/1999	Andrews et al.			
	A231	5.935.383	08/1999	Sun et al.			
	A232	5.990.377	11/1999	Chen et al.			
	A233	6.015.648	01/2000	Mitsumura et al.			
	A234	6.020.055	02/2000	Pearce			
	A235	6.020.536	02/2000	Österdahl et al.			
	A236	6.103.953	08/2000	Cree et al.			
	A237	6.165.306	12/2000	Raiala			
	A238	6.172.276 B1	01/2001	Hetzler et al.			
✓	A239	6.198.019 B1	03/2001	Hansson et al.			

Foreign Patent Documents

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WA	A1	AU 650912	04/1992	Australia			<input type="checkbox"/>	<input type="checkbox"/>
	A2	CA 803.531	01/1969	Canada			<input type="checkbox"/>	<input type="checkbox"/>
	A3	CA 884.608	11/1971	Canada			<input type="checkbox"/>	<input type="checkbox"/>
	A4	DE 32 05 931 A1	09/1983	Germany			<input checked="" type="checkbox"/>	<input type="checkbox"/>
	A5	EP 0 124 365 A1	11/1984	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A6	EP 0 136 524 A1	04/1985	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A7	EP 0 225 940 A1	06/1987	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A8	EP 0 360 285 A2	03/1990	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A9	EP 0 366 079 A2	05/1990	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A10	EP 0 374 910 B1	06/1990	Europe (Eng. claims)			<input type="checkbox"/>	<input type="checkbox"/>
	A11	EP 0 391 727 A2	10/1990	Europe			<input type="checkbox"/>	<input type="checkbox"/>
✓	A12	EP 0 395 223 A2	10/1990	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A13	EP 0 441.064 A1	08/1991	Europe			<input type="checkbox"/>	<input type="checkbox"/>

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U.S. PATENT DOCUMENTS

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	A1						
	A2						
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	A9						
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Foreign Patent Documents

							Trans.	
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	A2						<input type="checkbox"/>	<input type="checkbox"/>
	A3						<input type="checkbox"/>	<input type="checkbox"/>

Other Documents

Initials		Author, Title, Date, Pages, etc.
CWA	A1	McCauley, N., "Vibrating and Gyrotory Screeners: Proper Installation Yields Top Performance", <u>Powder and Bulk Engineering</u> , Volume 13, Number 12, December 1999, pp. 35-39
	A2	
	A3	
	A4	
	A5	
	A6	

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Initials		Doc. No.	Date	Country	Class	Subclass	Yes	No
CWA	A14	EP 0 483 592 A1	05/1992	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A15	EP 0 549 784 B1	07/1993	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A16	EP 0 552 345 B1	09/1993	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A17	EP 0 597 273 A1	05/1994	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A18	EP 0 682 927 A1	11/1995	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A19	EP 0 687 453 A1	12/1995	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A20	EP 0 768 070 A1	04/1997	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A21	EP 0 768 072 A1	04/1997	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A22	EP 0 781 537 A1	07/1997	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A23	EP 0 804 913 A1	11/1997	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A24	EP 0 375 224 A1	11/1998	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A25	EP 0 893 517 A2	01/1999	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A26	EP 0 904 755 A2	03/1999	Europe			<input type="checkbox"/>	<input type="checkbox"/>
	A27	FR 1.358.269	12/1964	France			<input type="checkbox"/>	<input checked="" type="checkbox"/>
	A28	FR 1.554.951	01/1969	France			<input checked="" type="checkbox"/>	<input type="checkbox"/>
	A29	GB 2 233 235 A	01/1991	Great Britain			<input type="checkbox"/>	<input type="checkbox"/>
	A30	GB 2 296 437 B	07/1996	Great Britain			<input type="checkbox"/>	<input type="checkbox"/>
	A31	WO 83/03051 A1	09/1983	World - PCT (Engr. abstract)			<input type="checkbox"/>	<input type="checkbox"/>
	A32	WO 92/07535 A1	05/1992	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A33	WO 96/17573 A3	06/1996	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A34	WO 96/38232 A1	12/1996	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A35	WO 97/14389 A1	04/1997	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A36	WO 97/21453 A1	06/1997	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A37	WO 97/34558 A1	09/1997	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A38	WO 97/34559 A1	09/1997	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A39	WO 98/00081 A1	01/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A40	WO 98/00082 A1	01/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A41	WO 98/01684 A1	01/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A42	WO 98/24389 A1	06/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
✓	A43	WO 98/31318 A1	07/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>

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Initials		Doc. No.	Date	Country	Class	Subclass	Yes	No
WA	A44	WO 98/36720 A1	08/1998	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A45	WO 98/43684 A1	10/1998	World - PCT (Eng. Jost/Pact)			<input type="checkbox"/>	<input type="checkbox"/>
	A46	WO 00/62730 A1	10/2000	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>
	A47	WO 00/63487 A1	10/2000	World - PCT			<input type="checkbox"/>	<input type="checkbox"/>

Other Documents

Initials		Author, Title, Date, Pages, etc.
WA	A1	American Society for Testing Materials (ASTM) Designation: D 1921-89, "Standard Test Methods for Particle Size (Sieve Analysis) of Plastic Materials", published August 1989.
	A2	American Society for Testing Materials (ASTM) Designation: D 3574-91, "Standard Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams," Procedures C and H, published March 1992.
	A3	American Society for Testing Materials (ASTM) Designation: D 4032-82, "Standard Test Method for Stiffness of Fabric by the Circular Bend Procedure," pp. 702-706, published August 1982.
	A4	American Society for Testing Materials (ASTM) Designation: D 6128-97, "Standard Shear Testing Method for Bulk Solids Using the Jenike Shear Cell", published October 1998.
	A5	Austin, L.G. et al., "Size Reduction of Solids: Crushing and Grinding Equipment," Chapter 12 in <u>Handbook of Powder Science and Technology</u> , 2nd edition, Chapman & Hall, New York, 1997, pp. 586-634.
	A6	Chatterjee, P.K., Editor, <u>Absorbency</u> , published by Elsevier, 1985, pp. 42-44.
	A7	Disapio, Alfred J. et al., "Microporous Macrobreads Provide New Opportunities in Skin Care," <u>Soap & Cosmetics</u> , Vol. 75, No. 2, February 1999, pp. 42-44, 46-47.
	A8	Dullien, F. A. L., <u>Porous Media: Fluid Transport and Pore Structure</u> , Academic Press, New York, 1979, pp. 78-83.
	A9	Hostetter, David W., "Comparing Kneading and Disk Dispersion," <u>PaperAge</u> , November 1995, pg. 16.

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U.S. PATENT DOCUMENTS							
Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
CWA	A169	5,509,914	04/1996	Osborn, III			
	A170	5,514,104	05/1996	Cole et al.			
	A171	5,522,809	06/1996	Larsonneur			
	A172	5,527,300	06/1996	Sauer			
	A173	5,533,991	07/1996	Kirby et al.			
	A174	5,545,156	08/1996	DiPalma et al.			
	A175	5,558,656	09/1996	Bergman			
	A176	5,562,645	10/1996	Tanzer et al.			
	A177	5,562,650	10/1996	Everett et al.			
	A178	5,575,786	11/1996	Osborn, III			
	A179	5,578,025	11/1996	May			
	A180	5,591,148	01/1997	McFall et al.			
	A181	5,591,150	01/1997	Olsen et al.			
	A182	5,595,628	01/1997	Gordon et al.			
	A183	5,599,337	02/1997	Mccov			
	A184	5,603,707	02/1997	Trombetta et al.			
	A185	5,607,551	03/1997	Farrington, Jr. et al.			
	A186	5,611,790	03/1997	Osborn, III et al.			
	A187	5,624,423	04/1997	Anjur et al.			
	A188	5,643,238	07/1997	Baker			
	A189	5,643,653	07/1997	Griesbach, III et al.			
	A190	5,647,863	07/1997	Hammons et al.			
	A191	5,649,916	07/1997	DiPalma et al.			
	A192	5,662,633	09/1997	Doak et al.			
	A193	5,672,248	09/1997	Wendt et al.			
	A194	5,674,210	10/1997	Coles et al.			
	A195	5,681,303	10/1997	Mills et al.			
✓	A196	5,688,259	11/1997	Osborn, III et al.			

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U.S. PATENT DOCUMENTS							
Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
LWA	A1	H1511	12/1995	Chappell et al.			
	A2	H1585	08/1996	Ahr			
	A3	H1614	11/1996	Maver et al.			
	A4	1,843,037	01/1932	Mathev			
	A5	2,064,431	12/1936	Jurgensen			
	A6	2,331,355	10/1943	Stronson			
	A7	2,747,575	05/1956	Mercer			
	A8	2,787,271	04/1957	Clark			
	A9	2,952,260	09/1960	Burgeni			
	A10	3,029,817	04/1962	Harwood et al.			
	A11	3,036,573	05/1962	Voigtman et al.			
	A12	3,143,113	08/1964	Mills			
	A13	3,211,147	10/1965	Pherson et al.			
	A14	3,230,955	01/1966	Joa et al.			
	A15	3,343,543	09/1967	Glassman			
	A16	3,395,201	07/1968	Kalwaites			
	A17	3,395,708	08/1968	Hervey et al.			
	A18	3,411,504	11/1968	Glassman			
	A19	3,430,630	03/1969	Meqison et al.			
	A20	3,468,311	09/1969	Gallagher			
	A21	3,554,862	01/1971	Hervey et al.			
	A22	3,556,932	01/1971	Coscia et al.			
	A23	3,556,933	01/1971	Williams et al.			
	A24	3,559,650	02/1971	Larson			
	A25	3,575,174	04/1971	Mogor			
	A26	3,585,104	06/1971	Kleinert			
	A27	3,592,194	07/1971	Duncan			
	A28	3,595,235	07/1971	Jespoersen			

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U.S. PATENT DOCUMENTS

Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
CWA	A29	3,599,388	08/1971	Feingold			
	A30	3,612,054	10/1971	Matsuda			
	A31	3,677,886	07/1972	Forsshlad et al.			
	A32	3,700,623	10/1972	Keim			
	A33	3,736,931	06/1973	Glassman			
	A34	3,772,076	11/1973	Keim			
	A35	3,836,336	09/1974	Yasui et al.			
	A36	3,885,158	05/1975	Flutie et al.			
	A37	3,886,941	06/1975	Duane et al.			
	A38	3,889,679	06/1975	Taylor			
	A39	3,899,388	08/1975	Petrovich et al.			
	A40	3,901,236	08/1975	Assarsson et al.			
	A41	3,903,890	09/1975	Mesek et al.			
	A42	3,954,107	05/1976	Chesky et al.			
	A43	3,972,855	08/1976	Martinsson et al.			
	A44	4,015,604	04/1977	Csillag			
	A45	4,029,101	06/1977	Chesky et al.			
	A46	4,059,114	11/1977	Richards			
	A47	4,062,362	12/1977	Schaar			
	A48	4,069,822	01/1978	Buell			
	A49	4,100,324	07/1978	Anderson et al.			
	A50	4,129,528	12/1978	Petrovich et al.			
	A51	4,144,122	03/1979	Emanuelsson et al.			
	A52	4,147,586	04/1979	Petrovich et al.			
	A53	4,200,103	04/1980	Black et al.			
	A54	4,222,921	09/1980	Van Eenam			
	A55	4,247,362	01/1981	Williams			
✓	A56	4,282,874	08/1981	Mesek			

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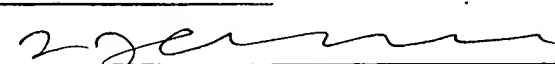
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U.S. PATENT DOCUMENTS							
Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
CNA	A113	4,963.139	10/1990	Dabroski			
	A114	4,973.325	11/1990	Sherrod et al.			
	A115	4,981.557	01/1991	Bjorkquist			
	A116	4,988.344	01/1991	Reising et al.			
	A117	5,007.906	04/1991	Osborn, III et al.			
	A118	5,008.344	04/1991	Bjorkquist			
	A119	5,009.653	04/1991	Osborn, III			
	A120	5,030.229	07/1991	Yang			
	A121	5,030.314	07/1991	Lanc			
	A122	5,048.589	09/1991	Cook et al.			
	A123	5,070.168	12/1991	O'Lenick, Jr.			
	A124	5,070.171	12/1991	O'Lenick, Jr.			
	A125	5,073.619	12/1991	O'Lenick, Jr.			
	A126	5,085.736	02/1992	Bjorkquist			
	A127	5,098.979	03/1992	O'Lenick, Jr.			
	A128	5,104.396	04/1992	Oatley et al.			
	A129	5,120.812	06/1992	O'Lenick, Jr. et al.			
	A130	5,135.294	08/1992	Ohshima et al.			
	A131	5,147.343	03/1998	Kellenberger			
	A132	5,149.765	09/1992	O'Lenick, Jr.			
	A133	5,151.091	09/1992	Glaug et al.			
	A134	5,167.654	12/1992	Yang			
	A135	5,171.302	12/1992	Buell			
	A136	5,188.625	02/1993	Van Iken et al.			
	A137	5,190.563	03/1993	Herron et al.			
	A138	5,196.499	03/1993	O'Lenick, Jr.			
	A139	5,197.959	03/1993	Buell			
	A140	5,225.047	07/1993	Graef et al.			

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WA	A141	5.237.035	08/1993	O'Lenick, Jr. et al.			
	A142	5.242.435	09/1993	Murji et al.			
	A143	5.267.992	12/1993	Van Tilburg			
	A144	5.275.591	01/1994	Mavinkurve			
	A145	5.280.099	01/1994	Imperante et al.			
	A146	5.281.208	01/1994	Thompson et al.			
	A147	5.296.434	03/1994	Karl et al.			
	A148	5.300.055	04/1994	Buell			
	A149	5.300.358	04/1994	Evers			
	A150	5.300.666	04/1994	Imperante et al.			
	A151	5.324.278	06/1994	Visscher et al.			
	A152	5.348.547	09/1994	Payne et al.			
	A153	5.348.620	09/1994	Hermans et al.			
	A154	5.350.624	09/1994	Georger et al.			
	A155	5.356.405	10/1994	Thomson et al.			
	A156	5.360.422	11/1994	Brownlee et al.			
	A157	5.399.175	03/1995	Glaug et al.			
	A158	5.399.412	03/1995	Sudall et al.			
	A159	5.401.267	03/1995	Couture-Dorshner et al.			
	A160	5.405.342	04/1995	Roessler et al.			
	A161	5.423.786	06/1995	Fung et al.			
	A162	5.429.629	07/1995	Latimer et al.			
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	A165	5.484.430	01/1996	Osborn, III			
	A166	5.489.469	02/1996	Kobavashi et al.			
	A167	5.490.846	02/1996	Ellis et al.			
✓	A168	5.509.913	04/1996	Yeo			

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Initials		Doc. No.	Date	Name	Class	Subclass	Filing Date
<i>W</i>	A197	5.692.939	12/1997	DesMarais			
	A198	5.695.487	12/1997	Cohen et al.			
	A199	5.702.378	12/1997	Widlund et al.			
	A200	5.711.970	01/1998	Lau et al.			
	A201	5.725.821	03/1998	Gannon et al.			
	A202	5.741.241	04/1998	Guidotti et al.			
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	A206	5.766.213	06/1998	Hackman et al.			
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	A222	5.851.648	12/1998	Stone et al.			
	A223	5.855.572	01/1999	Schmidt			
<i>V</i>	A224	5.858.011	01/1999	Brown et al.			

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CWA	A57	4,303,471	12/1981	Laursen			
	A58	4,324,246	04/1982	Mullane et al.			
	A59	4,327,728	05/1982	Elias			
	A60	4,340,058	07/1982	Pierce et al.			
	A61	4,342,314	08/1982	Radel et al.			
	A62	4,351,699	09/1982	Osborn, III			
	A63	4,397,644	08/1983	Matthews et al.			
	A64	4,405,326	09/1983	Lenachan			
	A65	4,410,324	10/1983	Sabee			
	A66	4,432,833	02/1984	Breese			
	A67	4,460,642	07/1984	Errede et al.			
	A68	4,463,045	07/1984	Ahr et al.			
	A69	4,476,180	10/1984	Wnuk			
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	A73	4,490,147	12/1984	Pierce et al.			
	A74	4,522,967	06/1985	Sheldon et al.			
	A75	4,524,474	06/1985	Svensson			
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	A77	4,568,341	02/1986	Mitchell et al.			
	A78	4,573,986	03/1986	Minetola et al.			
	A79	4,578,070	03/1986	Holtman			
	A80	4,578,071	03/1986	Buell			
	A81	4,589,876 B1	04/1993	Van Tilburg			
	A82	4,594,130	06/1986	Chang et al.			
	A83	4,627,848	12/1986	Lassen et al.			
✓	A84	4,636,209	01/1987	Lassen			

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	A87	4,654,161	03/1987	Kollmeier et al.			
	A88	4,655,759	04/1987	Romans-Hess et al.			
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	A90	4,675,394	06/1987	Solarek et al.			
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	A93	4,678,464	07/1987	Holtman			
	A94	4,681,793	07/1987	Linman et al.			
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	A96	4,717,498	01/1988	Maxon			
	A97	4,723,953	02/1988	Rosenbaum et al.			
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Other Documents		
Initials		Author, Title, Date, Pages, etc.
WA	A10	Kallmes, O.J. et al., "The Gravimetric Absorbency Testing System (GATS)," Tappi Symposium - 1985 Nonwovens Symposium, pp. 231-235.
	A11	Kaye, Brian H., "Mixing of Powders," Chapter 11 in <u>Handbook of Powder Science & Technology</u> , 2nd edition, Chapman & Hall, New York, 1997, pp. 568-585.
	A12	Main, Steve et al., "Retention Aids for High-Speed Paper Machines," <u>Tappi Journal</u> , Vol. 82, No. 4, April 1999, pp. 78-84.
	A13	O'Lenick Jr., Anthony J. et al., "Silicone Compounds: Not Just Oil Phases Anymore," <u>Soap/Cosmetics/Chemical Specialties</u> , June 1998, pp. 55-57.
	A14	Rahn, K. et al., "New Cellulosic Polymers By Subsequent Modification of 2,3-Dialdehydic Cellulose," <u>Cellulose Chemistry and Technology</u> , Vol. 32, 1998, pp. 173-183.
	A15	Shinohara, Kunio, "Fundamental and Rheological Properties of Powders," Chapter 4 in <u>Handbook of Powder Science & Technology</u> , 2nd edition, Chapman & Hall, New York, 1997, pp. 96-145.
	A16	Federal Specification UU-T-595b, "Towel, Wiping, Paper: Industrial And Institutional," April 4, 1967, 8 pages.
✓	A17	Federal Specification UU-T-595C, "Towel, Wiping, Paper: Industrial And Institutional," July 27, 1976, 8 pages.

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